

CLAIMS

What is claimed is:

1. An adjustable foot pedal assembly comprising:
a carrier for supporting at least one foot pedal;
a guide, guiding the carrier for movement through a limited range along a path of movement;
a foot pedal mounted on the carrier and movable relative to the carrier in response to depression by a person's foot;
a control device having a body fixed relative to said path of movement and a plunger movable relative to said body in a direction transverse to said path of movement; and
a linkage, operatively connected to said foot pedal and said plunger, for effecting movement of said plunger in said direction transverse to said path of movement in response to depression of said foot pedal, the relationship between the movement of the foot pedal and the responsive movement of the plunger being independent of the position of said carrier within said limited range.
2. An adjustable foot pedal assembly according to claim 1, in which said linkage comprises an arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

3. An adjustable foot pedal assembly according to claim 1, in which said linkage comprises an arm pivoted for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

4. An adjustable foot pedal assembly according to claim 1, in which said linkage comprises an arm mounted on the carrier and pivoted on the carrier for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm being movable relative to said plunger along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

5. An adjustable foot pedal assembly according to claim 1, including a drive mechanism, connected to the carrier, for moving the carrier both in a first direction along said path of movement, and in an opposite direction.

6. An adjustable foot pedal assembly comprising:
a carrier for supporting at least one foot pedal;

a guide, guiding the carrier for movement through a limited range along a path of movement;
a foot pedal mounted on the carrier and movable relative to the carrier in response to depression by a person's foot;
a control device having a body fixed relative to said path of movement and a plunger movable relative to said body in a direction transverse to said path of movement; and
a plunger operator, operatively connected to said foot pedal and said plunger, for effecting movement of said plunger in said direction transverse to said path of movement in response to depression of said foot pedal, irrespective of the position of said carrier within said limited range;
wherein the plunger operator is positioned in relation to the foot pedal and the plunger is positioned in relation to the plunger operator so that the relationship between the movement of the foot pedal and the movement of the plunger is independent of the position of said carrier.

7. An adjustable foot pedal assembly according to claim 6, in which said plunger operator comprises an arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

8. An adjustable foot pedal assembly according to claim 6, in which said plunger operator comprises an arm pivoted for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

9. An adjustable foot pedal assembly according to claim 6, in which said plunger operator comprises an arm mounted on the carrier and pivoted on the carrier for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm being movable relative to said plunger along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

10. An adjustable foot pedal assembly according to claim 6, including a drive mechanism, connected to the carrier, for moving the carrier both in a first direction along said path of movement, and in an opposite direction.

11. An adjustable foot pedal assembly comprising:
a carrier for supporting at least one foot pedal;

a guide, guiding the carrier for movement through a limited range along a path of movement;
a foot pedal mounted on the carrier and movable relative to the carrier in response to depression by a person's foot;
a control device having a body fixed relative to said path of movement and a plunger movable relative to said body in a direction transverse to said path of movement;
a plunger operator having a surface engageable with said plunger, said plunger operator being responsive to depression of said foot pedal for effecting movement of said plunger in said direction transverse to said path of movement, irrespective of the position of said carrier within said limited range;
wherein the plunger operator is positioned in relation to the foot pedal so that the relationship between the movement of the foot pedal and the movement of the plunger operator is independent of the position of said carrier; and
wherein the plunger is positioned in relation to the plunger operator so that the relationship between the movement of the plunger operator and the plunger is also independent of the position of said carrier.

12. An adjustable foot pedal assembly according to claim 11, in which said plunger operator comprises an arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects

downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

13. An adjustable foot pedal assembly according to claim 11, in which said plunger operator comprises an arm pivoted for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm, and at least one of said pedal and said plunger, being movable relative to each other along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

14. An adjustable foot pedal assembly according to claim 11, in which said plunger operator comprises an arm mounted on the carrier and pivoted on the carrier for rotation about an axis substantially parallel to said path of movement, said arm having upward and downward facing parts, the upward facing part of the arm being engaged with a part of said foot pedal, and the downward facing part being engaged with said plunger whereby depression of the foot pedal effects downward movement of the plunger, and said arm being movable relative to said plunger along a direction parallel to said path of movement as the carrier moves in said first or opposite directions.

15. An adjustable foot pedal assembly according to claim 11, including a drive mechanism, connected to the carrier, for moving the carrier both in a first direction along said path of movement, and in an opposite direction.